

Bridge Inspection										
Bridge File Number	74978 E-1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1960/1960					Lot No.	2			
Bridge or Town Name	WABAMUN					Inspector Name	Wade Nanninga			
Located Over	MUNICIPAL					Inspector Class	BR CLS A			
Located On	16:12 R1 33.804					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	09-Aug-2012			
Legal Land Location	NW SEC 11 TWP 53 RGE 4 W5M					Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-114:29:20, 53:34:12					Data Entry Date	27-Aug-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11					Review Date	21-Aug-2012			
Clear Roadway/Skew	13.4 / 19 deg. (RHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	9,920 / 2011 (A)					Dept. Review Date	30-Aug-2012			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 36 GIRDER			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: MUNICIPAL 5.9m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	6.9	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks	Determine if VC sign should be revised to max required clearance posting. Measured 6.5m.										
Required Load Posting (t)	Single				Semi				Truck Train		
Posted Loading (t)	Single				Semi				Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No			
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)				
Remarks	Not required.										
Hazard Marker At Bridge (Y/N)	No										
Remarks	Not required.										
Other Sign Types											

Utilities (Located at)										
Utility Attachments										
Telephone	North of WB bridge.					Gas				
Power	Along both sides of haul road & under end spans.					Municipal				
Others						Problem (Y/N)	No			
Remarks										

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment				6	6	Horizontal curve to the west.			
Vertical Alignment				6	6	On approx 5% grade.			
Roadway Width (m)	12.000					Ruts @ W abut.			
Approach Bump				5	4				
Guardrail (Y/N)	Yes					Not attached to parapet. Insufficient posts. None at East end.			
Guardrail				6	6				
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage				6	6				
Approach Road General Rating				6	6				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 4 Spans, Lengths(m): 16.2-16.2-21.3-19.2, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Rutting up to 50mm. Wide cracks in ACP sealed.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			4	4	Rough over the joints. Rutting in right lane along wheelpaths.
Deck Joints			3	3	All joints leaking. Paving lip deteriorating and spalled along East abutment. Underside of blockout spalling at P1, P2 with exposed rebar. Snow plow deflector missing South lane joint over P2. 2 loose cover plate bolts pier 1 South side.
Temperature (deg. C)		25			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80		A1			
90		P1			
90		P2			
95		P3			
90		A2			
Deck Drainage			3	3	Sock drain at P2, South side. P1 & P2 joints leaking with U/S deck spalls. Deck drainage eroding abutment slopes.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Several rebar spalls on fascia. Curb exterior has longitudinal delam cracks and spalls.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	50% of posts have narrow to wide cracks at various locations around top rail or around bottom rail or along rebar. Rail only.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : CONCRETE;CONCRETE)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			6	6	Minor cracks at shoe plates typical of "O" girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 26)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 16.2-16.2-21.3-19.2, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Stained and corrosion at joints. 1 brace on span 4 rattles like it is broken.
Bearings		3	3	(Sole plate at G7S1 has slide out and G7 has dropped - photo. 6 Oct 2010) Appears stable Fixed at abutments. Pitting/scaling rust - typical.
Temperature (deg. C)	25			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		3	3	Concrete is spalled at joint locations - photos.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	Stained due to leaking joint at East end. Breastwall not visible.
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		4	4	Gullies at both headslopes. 1m wide x 0.5m deep on East side - photo.
Piers/Bents				
(Type : PIER-COLUMN)				Spalls patched. Spot corrosion @ bottom of pier caps, typical. Vertical crack N end at W pier.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4:4)				Caked-on dirt in splash zone of all columns. P2, P3 recently patched. Wide vertical cracks at top of most columns, pier 3.
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	Staining @ all piers from leaky joints.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		5	X	
Type				
Slope Protection		4	4	Gullies on East headslope - photo.
(Type : NATURAL; NATURAL)				
Bank Stability		4	4	Prone to erosion.
Drainage		6	6	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch delams & seal all curbs.					
PATCH DECK	2012	Patch deck underside.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace all joints. Patch Paving lips.					
RESET/ PAINT BEARINGS	2012	Repair bearing sole plate S1G7 at P1 & reset/recondition all bearings.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair abutment gullies.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Change VC sign to 6.5 max.					
OTHER ACTION	2012	Change VC sign to 6.5 max.					
OTHER ACTION	2012	Tighten loose cover plate bolts.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	49.4/49.3	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Hold all repairs to see if major rehab programmed in the near future and complete at same time.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	09-May-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							